Micro Commercial Components
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GBJ35005 THRU GBJ3510

35 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- UL Recognized File # E165989

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

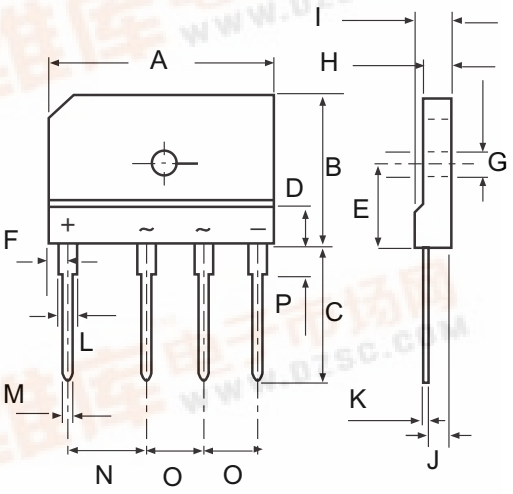
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ35005	GBJ35005	50V	35V	50V
GBJ3501	GBJ3501	100V	70V	100V
GBJ3502	GBJ3502	200V	140V	200V
GBJ3504	GBJ3504	400V	280V	400V
GBJ3506	GBJ3506	600V	420V	600V
GBJ3508	GBJ3508	800V	560V	800V
GBJ3510	GBJ3510	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	35 A	Tc = 100°C
Peak Forward Surge Current	I_{FSM}	350A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.05V	I_{FM} = 17.5 A T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 µA 500uA	T_J = 25°C T_J= 125°C
Typical thermal resistance	$R_{\Theta JC}$	0.6°C/W	
Typical Junction Capacitance	C_J	85 pF	Measured at 1.0MHz, V_R=4.0V

*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

GBJ



DIM	INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
A	1.170	1.190	29.70	30.30	
B	.780	.800	19.70	20.30	
C	.670	.710	17.00	18.00	
D	.019	.019	4.70	4.90	
E	.430	.440	10.80	11.20	
F	.090	.110	2.30	2.70	
G	.120	.130	3.10	3.40	
H	.130	.150	3.40	3.80	
I	.170	.190	4.40	4.80	
J	.100	.110	2.50	2.90	
K	.020	.030	0.60	0.80	
L	.080	.090	2.00	2.40	
M	.040	.040	0.90	1.10	
N	.390	.400	9.80	10.20	
O	.290	.300	7.30	7.70	
P	.150	.170	3.80	4.20	

RATING AND CHARACTERISTIC CURVES
GBJ35005 thru GBJ3510

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FIG.1 - FORWARD CURRENT DERATING CURVE

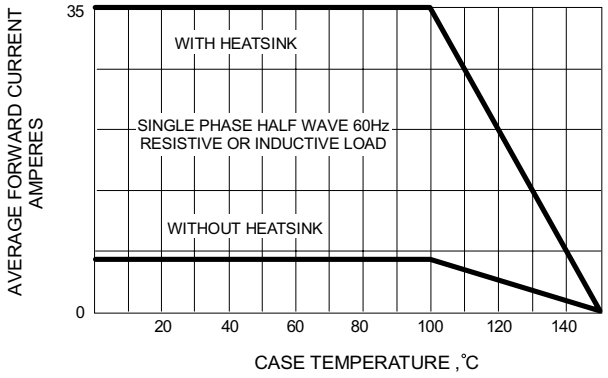


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

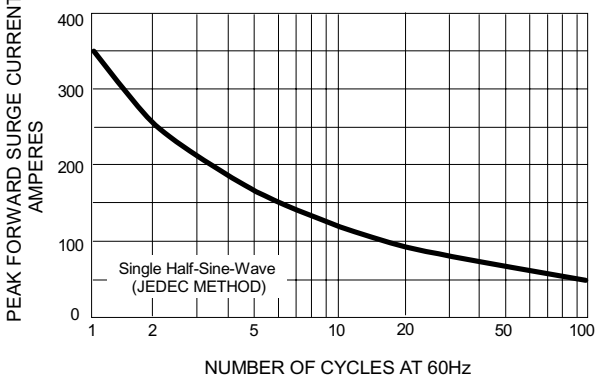


FIG.3 - TYPICAL JUNCTION CAPACITANCE

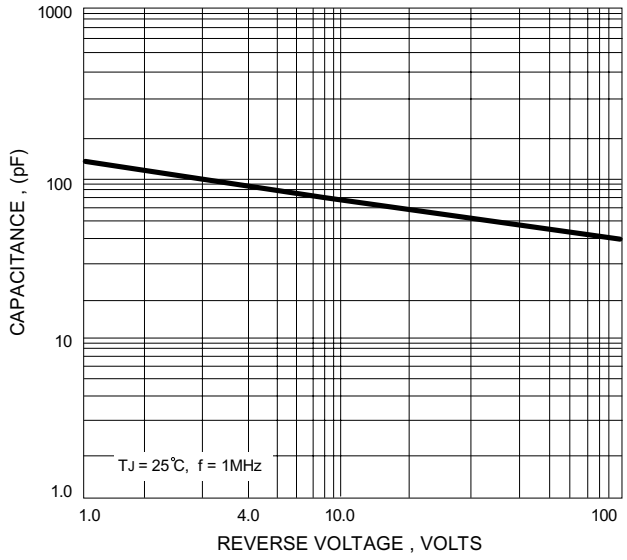


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

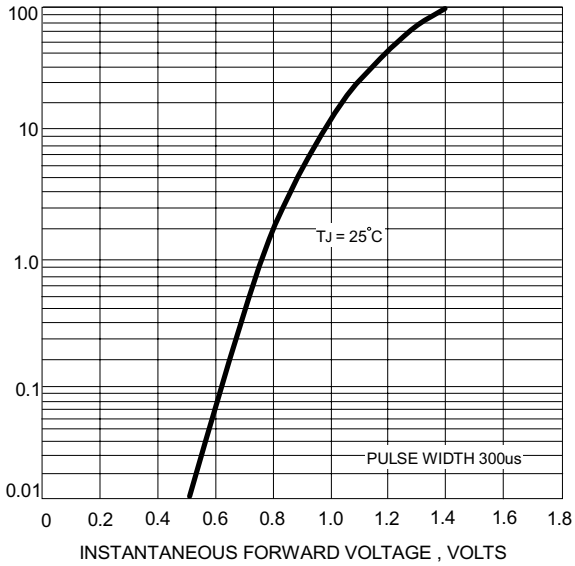
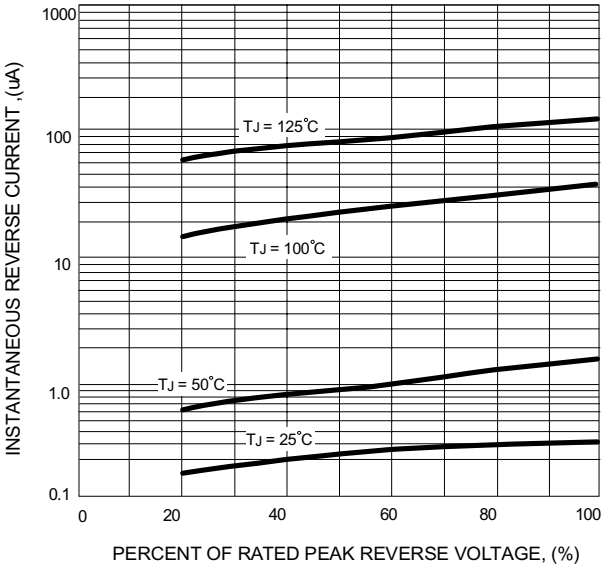


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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